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Test of Yarn Traction with MesdanLab Strength Tester

Customer Code	VTEX	Test Code	NE 20/2	Date	23/03/2023	Time 9:26:57 AM
Sample Description	TPM 594			Sample Number	20	
Parcel	NT	Lot	SSP 03-22	Count	10 [Ne]	
Material						
Examiner	PHAM TRONG					
Sample Length	500 [mm]	Load cell ID/FS [kg]	3 / 12 X 1			
Clamp Speed	500 [mm/min]	Pretension	27 [cN]			
Test Machine	MesdanTensolab CRE					
Test Conditions	25C, 1 atm, 60% Rh					
Observations						

Statistical Results of the Test

	Force [cN]	Elongation [%]	Tenacity [cN/tex]	Average Time of Breakage	8.6 [s]
Maximum	2538.942 (6)	15.000 (2)	42.993 (6)		
Minimum	2144.714 (4)	13.680 (23)	36.317 (4)		
Average	2316.870	14.406	39.232		
Range	17.016 [%]	9.163 [%]	17.016 [%]		
CV	3.964 [%]	2.265 [%]	3.964 [%]		
Deviation	91.838	0.326	1.555		
IC95%	40.249	0.143	0.682		
IC99%	52.896	0.188	0.896		

Results of Single Samples

Sample #	Max Force [cN]	Max Elongation [%]	Time [s]	Tenacity [cN/tex]
1	2343	14.46	8.7	39.672
2	2422	15.00	9.0	41.017
3	2145	14.10	8.5	36.317
4	2174	14.16	8.5	36.815
5	2539	14.76	8.9	42.993
6	2315	14.28	8.6	39.207
7	2364	14.70	8.8	40.037
8	2247	14.28	8.6	38.044
9	2278	14.40	8.6	38.576
10	2251	14.16	8.5	38.111
11	2330	14.70	8.8	39.456
12	2299	14.22	8.5	38.924
13	2350	14.70	8.8	39.788
14	2223	14.10	8.5	37.646
15	2317	14.94	9.0	39.240
16	2433	14.34	8.6	41.199
17	2336	14.40	8.6	39.555
18	2375	14.58	8.7	40.220
19	2360	14.16	8.5	39.971
20	2236	13.68	8.2	37.862